

Intelligent Simplicity

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VERSION #0617 MB

**TECHNICAL MODEL DATASHEET** 

## WSB MB Gravimetric MicroBlender™

# The smallest weigh scale blender in the world

Ideal for small injection machines for up to 100 lb/hr (45 kg/hr).

#### Removeable hoppers

The WSB MB consists of 4 removeable hoppers, fitted with materials dispense valves for metering all materials.

#### **Quick color changes**

With no bolts or tools required, the removeable hoppers are ideal for quick color or additive changes, reducing downtime.

#### Dispense valve options

Our corner valve, pivot valve and carousel valve options are designed for poor flowing, free flowing and very small percentage settings respectively, to keep all materials flowing.

#### Up to 4 components

The standard MicroBlender is equipped with 1 Corner Valve for Regrind and 3 Pivot Valves for Natural, color and additive. There are 5 models available, which can achieve up to 100 lb/hr (45 kg/hr).

#### **Batch size**

The hoppers are mounted above the weigh bin with a default 0.88 lb (400g) batch size.

#### **High consistent accuracy**

On every material within ± 0.1% on a 1% setting.

#### Sequential dispensing

The system tares the weight of the weigh bin and then each material is dispensed – Regrind, Natural, Color and Additive – in sequence to ensure accurate dispenses of every material within the blend.

#### Homogenous mix

A complete batch is released into the mixing chamber and mixed with the previous batch to ensure a homogenous mix.

#### Control of the mix

Material blending is controlled by a level sensor mounted in the upper part of the mix chamber to retain accurate mixing. When the sensor is covered, the blender will not dispense any further batches.

#### Easy set up

Settings are made easily by either user friendly thumbwheels or entering settings directly on the keypad / optional touchscreen.

#### **Password protection**

Special functions can be easily accessed and set via the password protect key.



#### **Audible and visual alarms**

An audible and visual alarm sounds should a batch be incomplete.

#### Reporting

Setup and operation reports can be printed direct to a USB key. Alternatively, data is also available via Ethernet or serial ports allowing remote access and monitoring.

#### Integration

Integration to other control or ERP systems can be made via leading fieldbus or OPC interfaces.

#### **Quick cleanout**

A compressed air gun is provided for quick cleanout.

#### Rapid color change

Easy access to all material contact surfaces of the machine including hoppers, weigh bin and mixing chamber allows for rapid color changes without the use of tools.

#### **Controller**

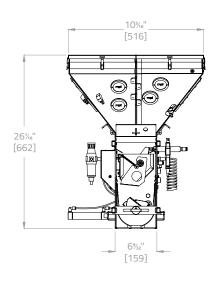
The Maguire controller monitors and confirms the weight of each ingredient and comes with an optional touchscreen.

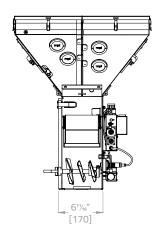




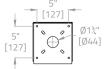
## WSB MB Gravimetric MicroBlender™ Dimensions

#### Compartments - 0.3 cu ft [8 Litres]





## Footprint 5"



	10½"	
10½" [260]	COLOR 4	NATURAL 2
	REGRIND 1	ADDITIVE 3

#### **Technical data**

Model WSB MB		
Maximum Throughput*	40kg/h to 60kg/h 100lb/h to 125lb/h	
Number of Materials	4	
Material Dispense Systems	1 Corner Valve 3 1.25" Pivot Valves	
Weight	45Kg 100lb	
Power Supply	110vac - 0.5 Amp 230vac - 0.2 Amp	
Operating Air Pressure	3 Bar 40psi	
Air Consumption	0.3 m³/hr 0.17cfm	
Shipping Weight	50Kg 110lb	
HxWxD	65 x 76 x 55cm 28.5 x 30.5 x 22in	

\*Throughput achieved is influenced by number of materials, how well they flow, vibration and loading consistency - each can effect maximum output of a blender, which in turn effects sizing the correct blender required for an application.

#### **Key features**

- Ideal for small processing machines
- Additional standby materials hopper
- Reduced weight and footprint
- Overall precision of ±0.1% of specified blend
- Compressed air gun for quick cleanout included
- Easy access to all material contact surfaces of the machine including hoppers, weigh bin, and mixing chamber permits rapid colour change without the use of tools
- Proprietary microprocessor-control technology monitors and confirms the weight of each ingredient / touch-screen optional.
- Compensation is made when a variation in dispense weight is detected
- Vibration Weighing management
- Improved documentation capabilities
- 5 Year Warranty



 $Maguire\ reserves\ the\ right\ to\ cancel\ product\ or\ change\ product,\ product\ specifications\ and\ data\ without\ notice\ to\ improve\ reliability,\ function,\ design\ or\ otherwise.$ 

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